

MEMORANDUM

AGICF
1, 2
9-23-74

TO: Files
FROM: H.W. Burwell
SUBJECT: STAFF EVALUATION
DATE: September 23, 1974

State of
Washington
Department
of Ecology



APPLICANT: ACE GALVANIZING, INC.
429 South 96th Street
Seattle, WA

Npdes Application No. WA-002225-0

Activity or Production: Galvanizing

Receiving Water: Storm ditch tributary to unnamed stream tributary to the Duwamish River near the Hammond-Schmitt Road, South Park.

Applicable Water Quality Standards: Class A

Background:

The applicant operates a hot dip galvanizing facility in an unsewered industrial area in unincorporated King County. The resulting effluent contains significant quantities of zinc and cyanide. The cyanide results from rinsewater associated with a cyanide dip tank.

The industry has a past record of water quality violations related to quenching of hot galvanized parts by hosing over a catchbasin.

Effluents consist of rinsewater from metal cleaning operation, minor amounts of compressor cooling water and the quench water have a combined flow of 6,000 gallons per day. Sanitary wastes are treated by septic tank and drainfield.

Sanitary sewer service is available to residences within the Seattle City limits several blocks to the north of this industrial park. The Rainier Vista Interceptor to be constructed by Metro during 1975 will follow the West Marginal Way freeway to the east of this industrial park. The applicant and other industries have been requested to form a ULID to provide sanitary sewer service.

Evaluation:

Connection to the sanitary system will restrict discharges at levels achievable by inplant process control and pretreatment. If connection and pretreatment do not occur, the next approach should be the disposal of zinc containing effluent by drainfield limiting effluent to drinking water standards (5.0 mg/l) and elimination or destruction of cyanide effluent prior to disposal to surface waters with a limit of 0.03 mg/l as cyanide. Ref: "Interim Effluent

USEPA SF



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STAFF EVALUATION
ACE GALVANIZING, INC.

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Guidance For NPDES Permits", U.S. Environmental Protection Agency.

Recommendations:

1. A NPDES permit be issued that limits the concentration of zinc, cyanide, and oils with a time schedule to eliminate the discharge of pollutants.
2. The applicant and other polluting industries be ordered to form a ULID to construct a sanitary sewer collection system.

HWB:mk
9-23-74 dt

This ~~person~~ applicant
was fined by the
State (DOE) for dis-
charging w/o permit.
If they are ever
~~to~~ issued a permit
it will be in a long
time because they ~~are~~
will probably
have to ~~have~~ install
process treatment.

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